

UNIVERSIDAD DE CASTILLA - LA MANCHA GUÍA DOCENTE

Academic year: 2019-20

Group(s): 40

1. General information

Course: FIRE ECOLOGY Code: 37333 Type: ELECTIVE ECTS credits: 4.5 Degree: 340 - UNDERGRADUATE DEGREE PROGRAMME IN ENVIRONMENTAL

SCIENCES

Center: 501 - FACULTY OF ENVIRONMENTAL SCIENCES AND BIOCHEMISTRY

Year: 4 **Duration:** First semester Second language: English Main language: Spanish Use of additional English Friendly: Y languages: Bilingual: N Web site:

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Lecturer: MARIA BELEN HINOJOSA CENTENO - Group(s): 40									
Building/Office	Department	Phone numbe	Emai				Office hours		
Sabatini/0.36	CIENCIAS AMBIENTALES	5470	m	naria	belen.hinojosa@uclm.e:	s I	Martes, miércoles y jueves de 12:00 a 14:00 horas (previ cita por e-mail)		
Lecturer: TERESA ITZIAR RODRIGUEZ URBIETA - Group(s): 40									
Building/Office	Department	rtment Phor		r	Email		Office hours		
ICAM/ 0.33	CIENCIAS AMBIENTALES	5763			itziar.rodriguez@uclm.es		Martes, Miércoles y Jueves de 12.00h a 14.00h		
Lecturer: IVAN TORRES GALAN - Group(s): 40									
Building/Office	Department	Phone	Phone number Ema			Office hou	ffice hours		
Sabatini/0.35	CIENCIAS AMBIENTALES	5472	iv	van.t	orres@uclm.es		1:00 a 12:00 y de 13:00 a 14:00, Martes y Jueves de :00h (previa cita por e-mail)		

2. Pre-Requisites

Not established

3. Justification in the curriculum, relation to other subjects and to the profession

4. Degree competences achieved in this course

Course competences	,
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Code

Apply their knowledge to their job or vocation in a professional manner and show that they have the competences to construct and CB02

justify arguments and solve problems within their subject area.

Be able to gather and process relevant information (usually within their subject area) to give opinions, including reflections on relevant **CB03**

social, scientific or ethical issues.

CB04 Transmit information, ideas, problems and solutions for both specialist and non-specialist audiences.

E01 Ability to understand and apply basic knowledge.

E02 Capacity for multidisciplinary consideration of an environmental problem E03 Awareness of the temporal and spatial dimensions of environmental processes

E04 Ability to integrate experimental evidence found in field and/or laboratory studies with theoretical knowledge.

F05 Capacity for qualitative data interpretation Capacity for quantitative data interpretation E06

E07 Capacity to plan, manage and conserve natural resources E12 Ability to manage Geographic Information Systems

Ability to handle software. E13

E18 Capacity to manage the natural environment

E20 Capacity to plan and carry out actions to restore the natural environment

G01 Proficiency in a second foreign language at level B1 of the Common European Framework of Reference for Languages.

G02 Knowledge of Information and Communication Technologies (ICT).

G03 Good oral and written communication

5. Objectives or Learning Outcomes

Course learning outcomes

Description

Understand the responses of organisms, ecosystems and landscapes to fire.

Know the techniques and measures for fire prevention and firefighting.

Understand the phenomenon of forest fires, their global significance and their role in ecosystems.

Acquire basic criteria and techniques useful for the management of ecosystems affected by fires.

Understand the physical and chemical processes of the combustion phenomenon.

Know the risk factors that determine the occurrence of fires.

6. Units / Contents

Unit 1:

Unit 1.1

Unit 1.2

Unit 2:

Unit 2.1

Unit 2.2

Unit 2.3

Unit 2.4

Unit 3:

Unit 3.1

Unit 3.2

Unit 3.3

Unit 3.4

Unit 3.5

Unit 4:

Unit 4.1

Unit 4.2

7. Activities, Units/Modules and I	Methodology							
Training Activity	Methodology	Related Competences (only degrees before RD 822/2021)	ECTS	Hours	As	Com	R	Description
Class Attendance (theory) [ON- SITE]	Lectures	E01 E02 E03 E07 E18 E20 G01	0.76	19	N	-	-	
Study and Exam Preparation [OFF- SITE]	Self-study	CB03 E01 E02 E03 E05 E06 G01	0.92	23	N	-	-	
Workshops or seminars [ON-SITE]	Cooperative / Collaborative Learning	CB02 CB04 E13 E20 G01 G02 G03	0.4	10	Υ	Υ	Υ	
Other off-site activity [OFF-SITE]	Self-study	CB03 E01 E02 E03 E05 E06 E20 G01 G02 G03	0.8	20	N	-	-	
Class Attendance (practical) [ON- SITE]	Practical or hands-on activities	CB03 E01 E02 E03 E04 E05 E06 E07 E12 E13 E18	0.6	15	Υ	Υ	N	
Practicum and practical activities report writing or preparation [OFF-SITE]	Self-study	CB02 CB03 CB04 E01 E02 E03 E04 E05 E06 E12 E13 G03	0.9	22.5	Υ	Υ	Υ	
Progress test [ON-SITE]	Assessment tests	CB03 E01 E02 E03 E05 E06 E20 G03	0.04	1	Υ	N	N	
Final test [ON-SITE]	Assessment tests	CB03 E01 E02 E03 E05 E06 E20 G03	0.08	2	Υ	Υ	Υ	
	4.5	112.5						
Total credits of in-class work: 1.88					Total class time hours: 47			
Total credits of out of class work: 2.62						Т	ota	al hours of out of class work: 65

As: Assessable training activity

Com: Training activity of compulsory overcoming

R: Rescheduling training activity

8. Evaluation criteria and Grading System								
	Grading System							
Evaluation System	Face-to-Face	Self-Study	Description					
,		Student	·					
Practicum and practical activities reports assessment	25.00%	0.00%						
Final test	55.00%	0.00%						
Other methods of assessment	20.00%	0.00%						
Total:	100.00%	0.00%						

9. Assignments, course calendar and important dates	
Not related to the syllabus/contents	
Hours	hours

10. Bibliography and Sources						
Author(s)	Title/Link	Publishing house	Citv	ISBN	Year	Description
Arnaldos, J., et al.	Manual de ingeniería básica para la prevención y extinción de incendios forestales	Mundi-Prensa			2004	
Bond, W.J. y Van Wilgen, B.W.	Fire and Plants	Springer			1996	

Keeley, J.E., et al.	Fire in Mediterranean Ecosystems	Cambridge University Press	2012
Pausas, J.G.	Incendios Forestales, una introducción a la ecología del fuego	CSIC	2012
Vélez, R.	La defensa contra incendios forestales: fundamentos y experiencias	McGraw-Hill	2000
Whelan, R.J.	The Ecology of Fire	Cambridge University Press	1995